Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 06-10-22

Lab ID	:	**CP-2022-09-06-01**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-09-22
Sample Type	:	Zuari 53grade
Source of Sample	:	BSF Campus
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-09-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A.E.E

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-17-01** **Date: 23/09/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 17-09-22

Customer ID : Drain Side Wall- PDMS Office Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall- PDMS Office Road	M20	16/09/2022	23/09/2022	150.00 X 149.51 X 149.90	22426	8.525	356.3	15.9	16.2
2	Drain Side Wall- PDMS Office Road	M20	16/09/2022	23/09/2022	149.61 X 151.26 X 151.86	22630	8.797	380.6	16.8	
3	Drain Side Wall- PDMS Office Road	M20	16/09/2022	23/09/2022	150.60 X 149.13 X 150.81	22460	8.131	357.0	15.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-06-01** **Date: 05-11-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	06-10-22
Sample Type	:	Zuari 53grade
Source of Sample	:	Judicial Layout
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-10-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Date: 27-10-22

Lab ID	:	CP-RW-2022-10-24-01
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	24-10-22
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	24-10-22

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.32	11.05	9KN(Min)
2	Marshal flow at 60°C, mm	3.55	3.72	2-4
3	Percent air Voids	4.25	4.38	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.72	14.33	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.58	69.78	65-75
6	Density, g/cc	2.41	2.42	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-22-01 **Date: 28/11/2022**

Project Name : Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)

Agency : M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23

Date of Receipt : 22-11-22

Customer ID : Cement Concrete Pavement - Lake view Layout 6th main road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Lake view Layout 6th main road	M30	21/11/2022	28/11/2022	151.53 X 150.84 X 150.35	22857	8.421	583.6	25.5	25.6
2	Cement Concrete Pavement - Lake view Layout 6th main road	M30	21/11/2022	28/11/2022	149.30 X 150.32 X 151.91	22442	8.716	601.2	26.8	
3	Cement Concrete Pavement - Lake view Layout 6th main road	M30	21/11/2022	28/11/2022	152.00 X 149.92 X 151.91	22787	9.026	555.0	24.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-RW-2022-11-23-01** **Date: 26-11-22**
Project Name	:	Improvements to roads, drains and other developmental works at Yelahanka old town, Maruthinagara, Sapthagiri Layout Gandinagara KHB colony, Nehru nagara, shivanahalli, PDMS APTS premise and surrounding areas in ward No 01 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-01)
Agency	:	M/S Sathya Constructions, Prop. Rajeshwaran Satheesh, No: 600, Down Bazar Road, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/34/2022-23
Date of Receipt	:	23-11-22
Sample Type	:	40mm down size coarse aggregate
Source of Sample	:	Bangla School
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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